04/02/03

MODIS sensor Working Group (MsWG) Summary

Attendance: Bill Barnes, Bob Barnes, Stuart Biggar, Vincent Chiang, Roger Drake, Gene Eplee, Wayne Esaias, Bob Evans, Timothy Gubbels, Bruce Guenther, Gerhard Meister, Chris Moeller, Vince Salomonson, Junqiang Sun, Gary Toller, Jack Xiong, Eric Vermote, , Joe Esposito

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Scheduled Items

Item 1 Review Preliminary RVS from DSM
JX) - Good news, the data is clean and robust
-We know the BB temp of 12 thermistors
-The focal plane began to warm up at t=15:00. It shows about .5° shift between the focal planes.
-We review the dn vs. AOI plots
-Discuss the need to compare current RVS vs prelaunch RVS
VS)-Why is B29 so different?
BG)
-B29 has a strong SiO2 absorption feature
->(MCST Action: look at correlation with witness sample.)
We were never confident in the witness sample documentation about the mirror side.
-Brief discussion that RVS(time) cannot be calculated from the single DSM.
VS)
-Why are some curves identical to pre-launch and some not (JX: Scale are different.)
JX) Current RVS overcompensated for b27, low for PC 33-36
-Tracability will go back to the witness dataset
Everyone) Some discussion of time-dependent delta RVS

Item 2 Discuss Aqua SRCA Lamp
JX)
-We performed SRCA Lamp Test. Tracked voltage/current&feedback.
-We will replace the bad lamp (#2) with the spare.
->(MCST Action: Send RD the data)

Item 3 Discuss L1B LUT processing
JX)
-We will change Aqua from 1 week calibration to two weeks and then deliver all measured m1.
-We agree that Aqua B25 is the best sender for the out-of-band SWIR correction. The next code change will include this change.
-For reprocessing, which m1 lut do we use.
-For Aqua we will deal with this in the fall
For Terra we will take the data from launch thru current to get the fitted trend and compare with measured m1 results. (MCST Action: Send all data and results to Miami)

Around the Table

EV) Terra B7 seems to change after changing to time dependent RVS. (MCST Action: Will look at L1B code to check this and process granule data with/without RVS(time) to determine if a change occurs)

BobB) For the lunar view of DSM, oversampling may cause the biggest error on SeaWiFS.
VS) We saw some angle jitter during DSM (Bob B: Jitter is small compared to oversampling)
JX) Schedule meeting with Kieffer

CM) The corrected and uncorrected Aqua B26 results are OK. B26 correction for Aqua seems very similar to Terra. Will send the Aqua coefficients ASAP.
- -Every 20 scans
-Will send Aqua coefficients ASAP
-For DSM, a total of 10 scans for each mirror side are used for preliminary analysis, startring at 14:50
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VS) We need some good data on Aqua vs. Terra and MODIS vs. MISR before the next Science Team meeting.
Does VIIRS expect m1 variation as in MODIS? Do we know the cause of the variation?
RD) Cannot comment
BE) There is a polarization issue. If the solar zenith angle is greater than 45°, the polarization correction factors seem to miss.

.... and at the end, there was discussion about early m1 oscillations around the mean degradation; cause for oscillations unknown.